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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,653	03/28/2007	Frank Brode	02316.2395USWO	3708
23552 MERCHANT &	7590 11/16/2007 & GOULD PC		· EXAM	INER
P.O. BOX 2903			LEUNG, QUYEN PHAN	
MINNEAPOLIS, MN 55402-0903		·	ART UNIT	PAPER NUMBER
		·	2874	
	•		MAIL DATE	DELIVERY MODE
			11/16/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		10/583,653	BRODE ET AL.			
	Office Action Summary	Examiner	Art Unit	_		
		Quyen P. Leung	2874			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet	with the correspondence address			
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUL 66(a). In no event, however, may rill apply and will expire SIX (6) No cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status						
1) 🗌	Responsive to communication(s) filed on	<u>.</u> .				
· —	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C	.D. 11, 453 O.G. 213.			
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-10, 14-17, 21-25 is/are rejected. Claim(s) 11-13 and 18-20 is/are objected to. Claim(s) are subject to restriction and/or		·			
Applicati	on Papers					
,	The specification is objected to by the Examine					
10)	The drawing(s) filed on is/are: a)☐ acce					
	Applicant may not request that any objection to the o	• • • • • • • • • • • • • • • • • • • •	• •			
11)	Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the Example 1.	•				
Priority u	ınder 35 U.S.C. § 119					
12)⊠ / a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau see the attached detailed Office action for a list of	have been received. have been received in ity documents have been (PCT Rule 17.2(a)).	Application No In received in this National Stage			
Attachment		-				
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 20060719.	Paper N	v Summary (PTO-413) b(s)/Mail Date f Informal Patent Application 			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

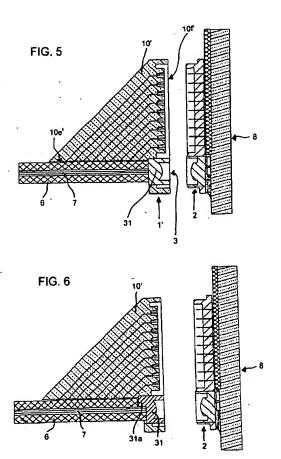
The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Kropp et al (US 2003/0181098). Kropp et al discloses the claimed invention. See figures 5 and 6 and paragraphs [0051]-[0054] for a connection module for telecommunication and data technique, entailing a base plate, onto which connecting modules for optical waveguides or electrical cores can be arranged, with the connecting modules and the base plate manifesting fitting agents corresponding to one another, wherein at least one connecting module(6) for optical waveguides (7) and at least one connecting module

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(10') for electrical cores (41) have been arranged on a base plate (8).



[6051] FIGS. 5 and 6 show an optoelectrical socket, in which the coupling planes of the electrical paths and the optical paths on the printed circuit board 6 are perpendicular to each other.

[0052] According to FIG. 5, the optical interface 3 of a plug-in connecting element 1' is disposed on the end face of the printed circuit board 6, so that the optical coupling plane runs perpendicularly in relation to the surface of the printed circuit board 6. With this orientation, optical signals of the optical waveguide 7 of the printed circuit board 6 can be coupled into the plug-in connecting element 1 or the optical interface 3 without deflection.

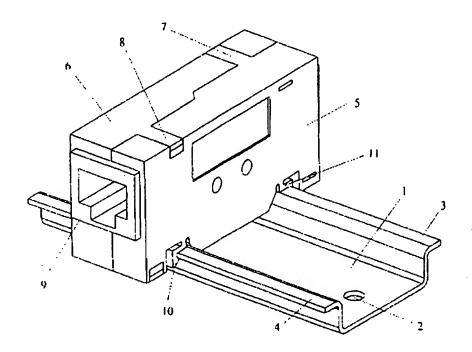
[0053] For the electrical coupling of the electrical interface 4 to the printed circuit board 6, a basic body 10' of the plug-in connecting element 1 is formed triangularly in section with two perpendicularly running sides 10e', 10f', between which the electrical contacts 41 run around the basic body 10'. The one side 10f forms the actual interface and, together with the optically effective region 3 of the plug 1', forms the coupling region in relation to the matching coupling element 2. On the other side 10e', the contacting of the electrical interface with respect to the printed circuit board 6 takes place by soldering. The coupling planes of the electrical paths and the optical paths on the printed circuit board 6 are perpendicular to each other.

[0054] In the case of FIG. 6, it is additionally provided that the region of the optical interface or of the optical element 31 facing the printed circuit board 6 has outer contours 31a enclosing the printed circuit board 6, in order to permit a passive adjustment of the plug-in connecting element 1' with respect to the printed circuit board by an automatic form fit.

Claims 1-7, 14 are rejected under 35 U.S.C. 102(b) as being anticipated by TKM TELEKOMMUNIKATION & ELEKTRONIK GMBH (DE 200 12 572 U1).

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Re claim 1, TKM discloses a connection module entailing a base plate (1,2,3,4) and at least one connecting module (housing, 5-11) for optical waveguides and at least one connecting module (housing, 5-11) for electrical cores. See English language translation provided by applicant which teaches plural housings for optical waveguides and/or electrical cores.

Re claims 2, 5, 14, note connecting modules' elements 10, 11 which detachably connect with the base plate.

Re claim 3, see the plate's connecting elements (3,4).

Re claims 6-7, see element 9 for the contacts being insulation displacement contacts.

Claims 14, 15, 17, 21-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Dupont (EP 0 290 188 A). Dupont clearly discloses the claimed invention.

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Re claims 14, 15, 17, 21-25, Dupont clearly shows this in figure 2: housing (10, 14, 16, 18), and fiber guidance structures (v-shaped grooves 20-23) for at least two waveguides (34,39) and base (43). Re the fiber being plastic or glass, see col. 8 lines 13. Re the fluid, see col. 8 line 31.

Claims 8-10, 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over TKM (DE 200 12 572). TKM has been discussed above except for the fiber guidance structures (claims 8, 16), the V-shaped grooves (claim 10). Fiber guidance structures and v-shaped grooves are well-known for guiding fibers. Lacking any stated criticality it would have been an obvious choice of design to one of ordinary skill in the art to modify TKM by using well-known structures and grooves.

Conclusion

Claims 11-13, 18-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quyen P. Leung whose telephone number is (571) 272-8188. The examiner can normally be reached on normally M-F, 6:15 am - 2:45 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Quyen Leung/ Quyen Leung Primary Patent Examiner Group Art Unit 2874

qpl